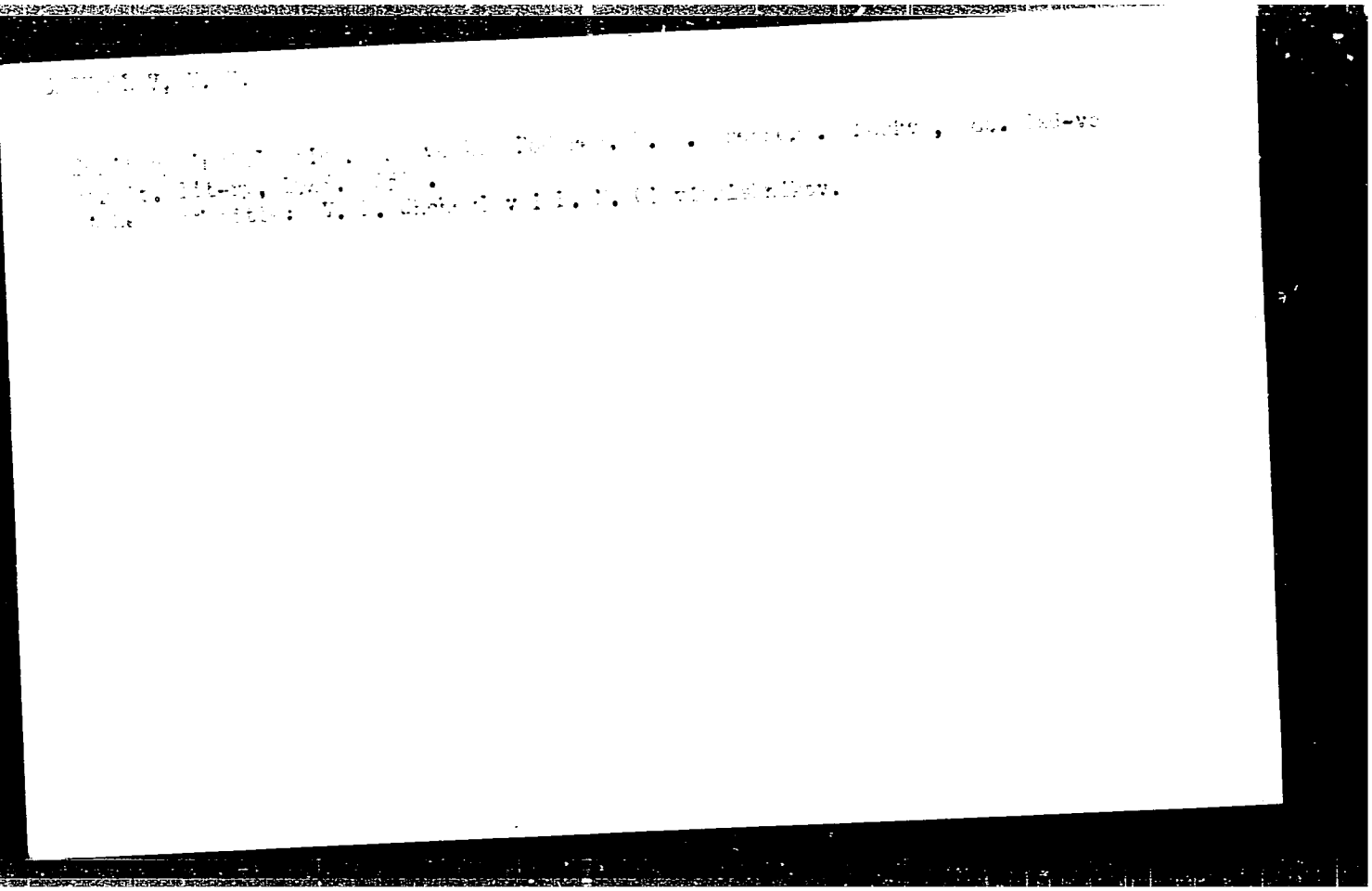
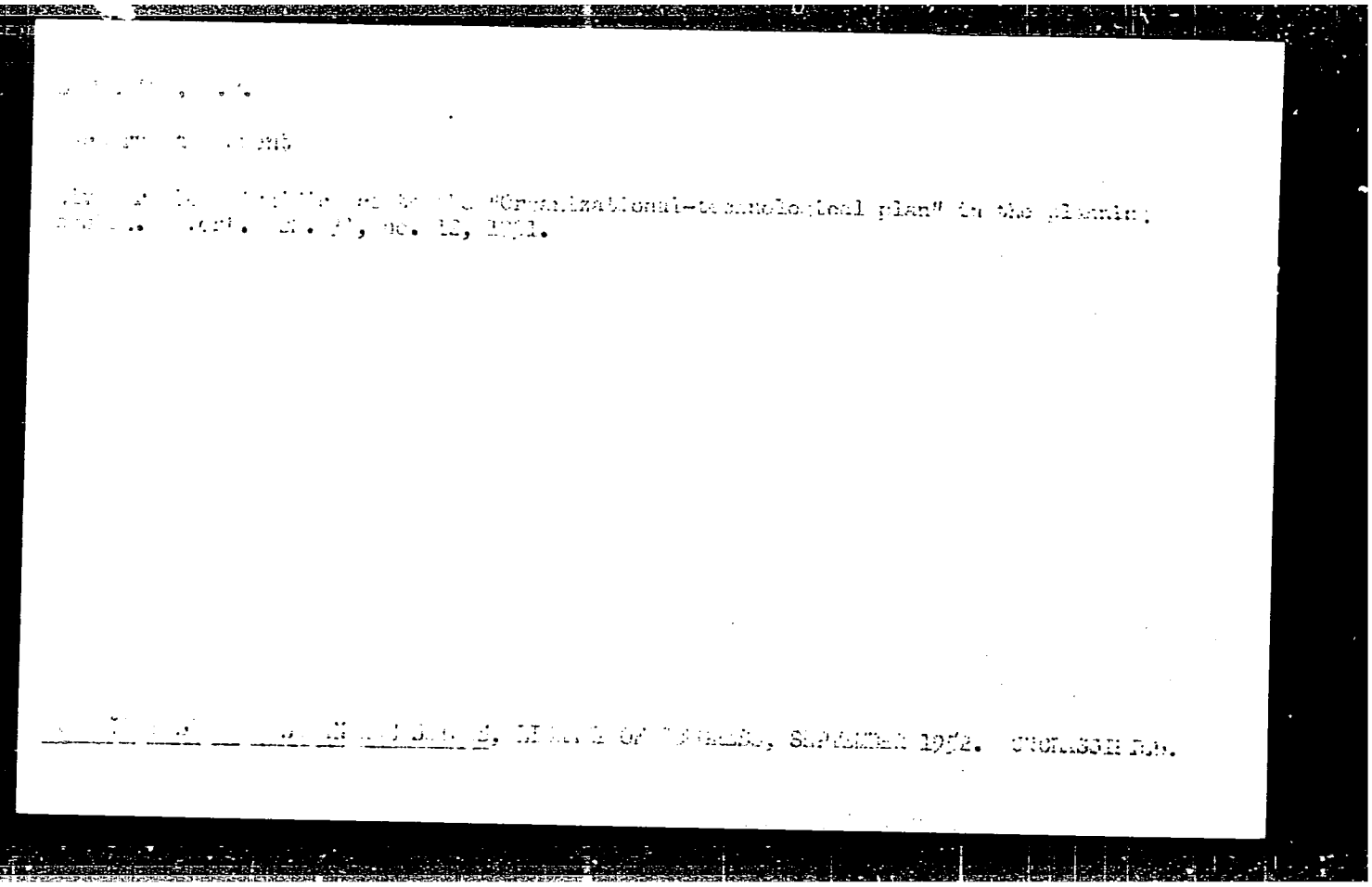




SHCHEGLOV, V. P., ENG.

Technology

Work of the Leningrad home of scientific-technical propaganda on planning organizational and technical measures. Vest. mash. 32 No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

Shcheglov, V. P.

BATURIN, V.V.; KUCHERUK, V.V.; SHCHEGLOV, V.P., retsenzent, kandidat tekhnicheskikh nauk; RYSIN, S.A., redaktor, kandidat tekhnicheskikh nauk; POPOVA, S.M., tekhnicheskiy redaktor.

[Ventilation of machine-building factories] Ventiliatsiia mashinostroitel'nykh zavodov. Izd.2-e perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 482 p. (MLRA 7:12)
(Factories--Heating and ventilation) (Machinery industry)

KAMENEV, P.N., doktor tekhnicheskikh nauk, professor; GAMBURG, P.Yu., kandidat tekhnicheskikh nauk, dotsent; KISSIN, M.I., kandidat tekhnicheskikh nauk, dotsent [deceased]; SHCHEGLOV, K.P., kandidat tekhnicheskikh nauk, dotsent; STAROVEROV, I.G., inzhener, retsenzent; NIKEMYAGI, D.K., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Heating and ventilation] Otoplenie i ventiliatsiia. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit. Pt.1. [Heating] Otoplenie. 1956. 343 p. (MLRA 10:2)
(Heat engineering)

KAMENEV, Petr Nikolayevich; SHCHEGLOV, V.P., kand.tekhn.nauk, dotsent; KALINUSHKIN, M.P., prof., retsenzent; LOBAYEV, B.N., prof., retsenzent; KORENEVSKIY, S.M., kand.tekhn.nauk, retsenzent; TALIYEV, V.N., doktor tekhn.nauk, nauchnyy red.; NINEMYAGI, D.K., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.

[Heating and ventilation] Otoplenie i ventiliatsiia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Pt.2. [Ventilation] Ventiliatsiia. 1959. 423 p. (MIRA 12:7)
(Ventilation)

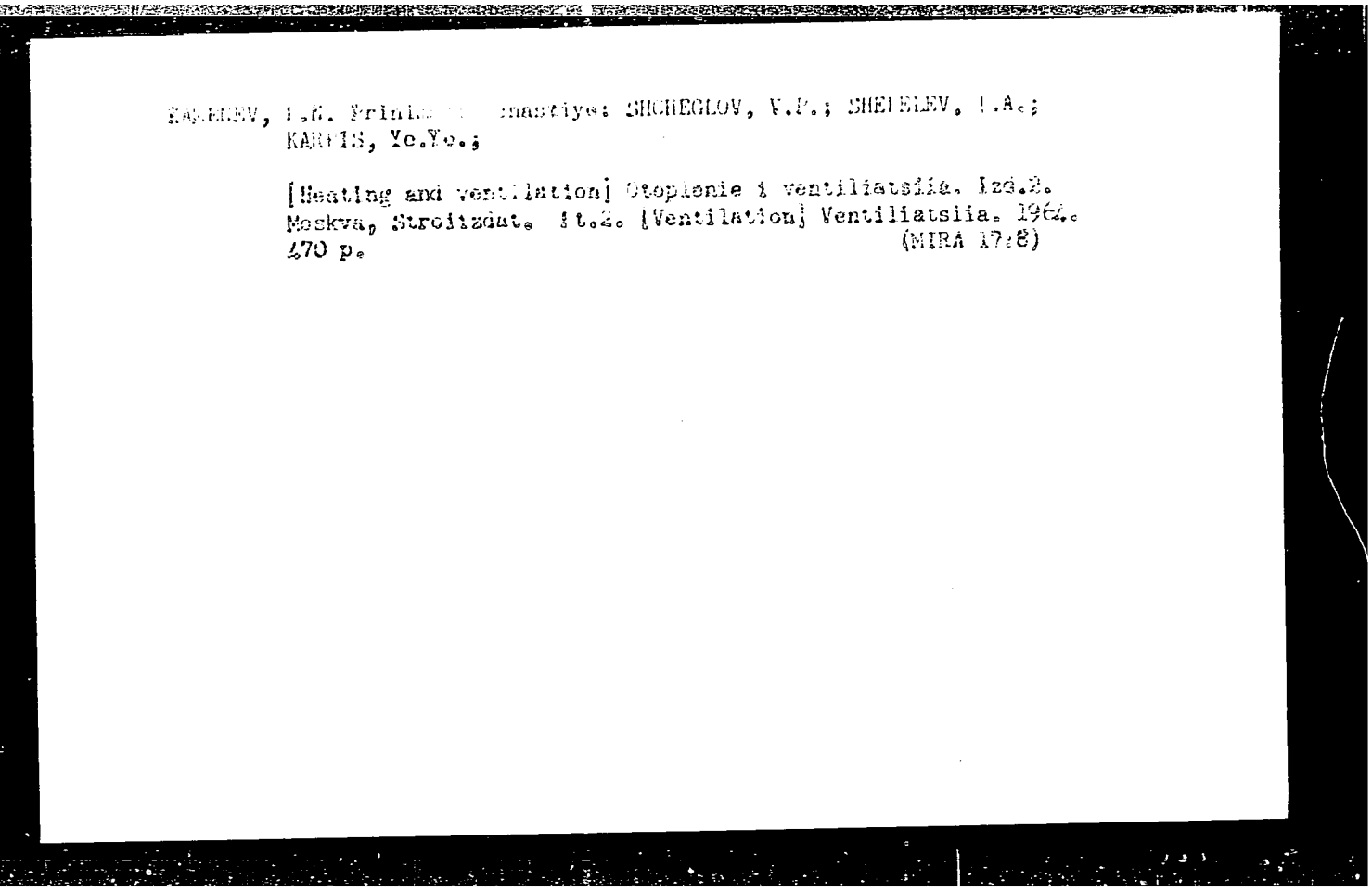
ORLOV, A.I.; SHCHEGLOV, V.P., dotsent, kand.tekhn.nauk, retsenzent; KOSTRYUKOV, V.A., inzh., retsenzent; YEGIAZAROV, A.G., kand. tekhn.nauk, nauchnyy red.; SMIRNOVA, A.P., red.izd-va; RYAZANOV, P.Ye., tekhn.red.

[Heating and ventilation] Otoplenie i ventiliatsiia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Pt.1. [Heating] Otoplenie. 1960. 223 p. (MIRA 13:9)
(Heating)

VYSHELESSKIY, A.N., prof.; CHUKAYEV, D.S., prof.; KONAROV, N.S., prof.; SEMATOV, I.G., dots.; RYABOV, V.I.; NEUGODOV, Ye.V.; GOROZHANKIN, M.G.; GAN, M.B., dots.,kand. tekhn. nauk; retsenzent; RAYSKIY, I.D., dots., retsenzent; LIKHAREVA, N.V., kand. tekhn. nauk, retsenzent; SHCHEGLOV, V.P., kand. tekhn. nauk, retsenzent; RUDOMETKIN, F.I., inzh., retsenzent; BAULIN, V.A., red.; EL'KINA, E.M., tekhn. red.

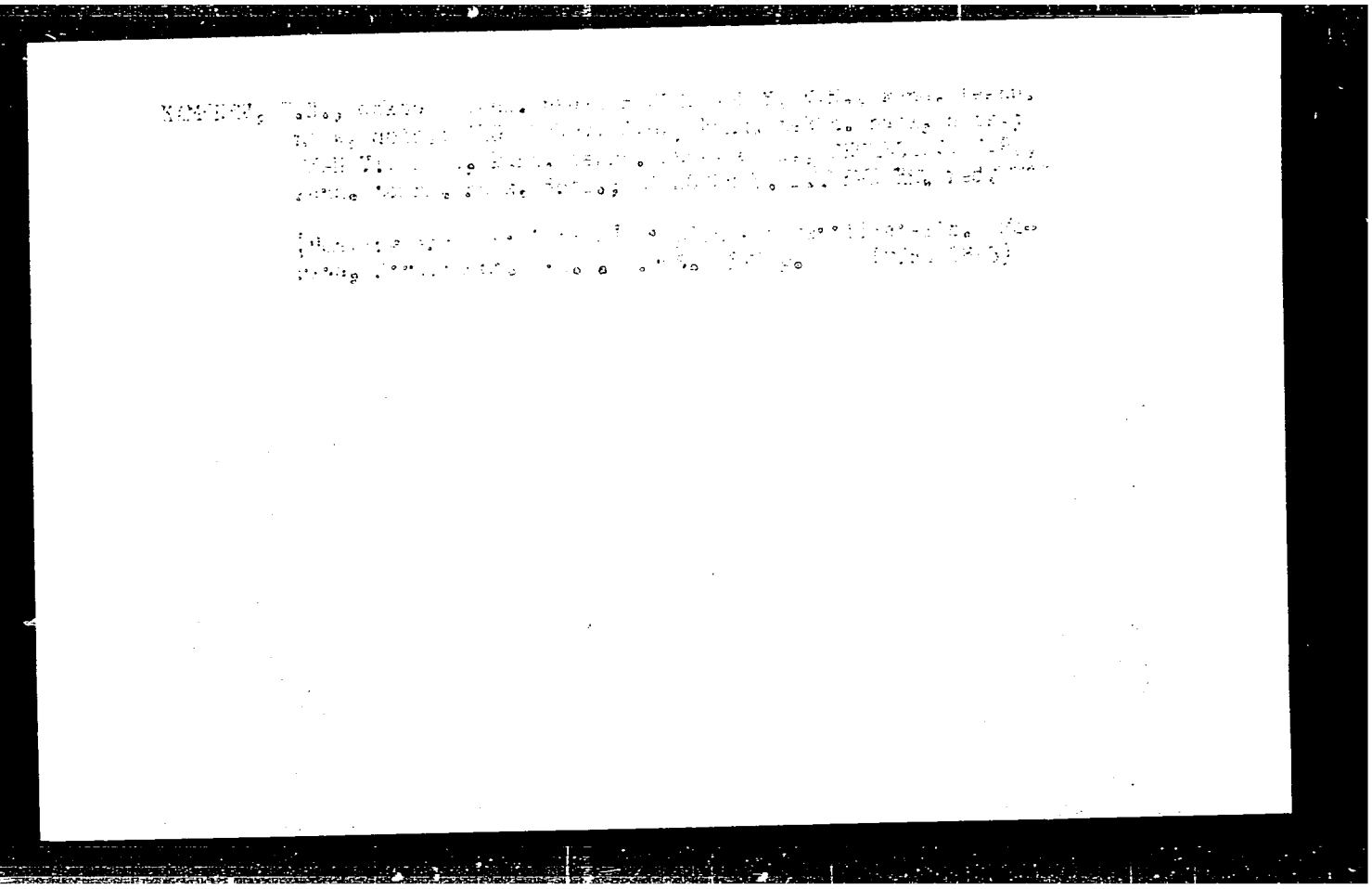
[Equipment of public food service establishments; electrical, refrigerating, and sanitary equipment] Oborudovanie predpriiatii obshchestvennogo pitaniia; elektricheskoe, kholodil'noe i sanitarno-tekhnicheskoe oborudovanie. Moskva, Gos.izd-vo torg. lit-ry, 1961. 447 p. (MIRA 15:3)

(Restaurants, lunchrooms, etc.--Equipment and supplies)



KAZANSKIY, I.N. Prinimali uchastiye: SHCHEGLOV, V.P.; SHELELEV, I.A.; KARRIS, Ye.Ye.;

[Heating and ventilation] Otoplenie i ventiliatsiia. Izd.2. Moskva, Stroiizdat. 1t.2. [Ventilation] Ventiliatsiia. 1964. 470 p. (MIRA 17:8)



BROMLEY, Mikhail Fedorovich, dots., kand. tekhn. nauk; SHCHEGLOV, Vladimir Porfir'yevich, dots., kand. tekhn. nauk; POLIKARPOV, Valentin Filippovich, kand. tekhn. nauk, nauchn. red.; DOLGOVA, K.N., red.

[Designing the heating and ventilation of industrial buildings] Proektirovanie otopleniia i ventiliatsii proizvodstvennykh zdanii. Moskva, Stroiizdat, 1965. 259 p. (MIRA 18:4)

KALINUSHKIN, Mikhail Pavlovich; SHCHEGLOV, V.P., kand. tekhn. nauk, nauchn. red.

[Hydraulic machinery and refrigerating plants] Gidravlicheskie mashiny i kholodil'nye ustanovki. Moskva, Strolizdat, 1965. 221 p. (MIRA 18:8)

SHCHEGLOV, V. P. Dr. Physicomath. Sci.

Dissertation: "Investigation of the Longitude of Tashkent Astronomical Observatory" Moscow Order of Lenin State Univ. imeni M. V. Lomonosov. 15 Oct., 1947

SO: Vechernyaya Moskva, Oct., 1947 (Project #17836)

SHCHEGLOV, V. P.

"The Longitude of the Tashkent Astronomical Observatory From Materials of the Time Service From 1932 to 1939," Jubilee Symposium of the Academy of Sciences Uzbek SSR, devoted to the 25th Anniversary of the Uzbek SSR, Tashkent, pp 102-112, 1950.

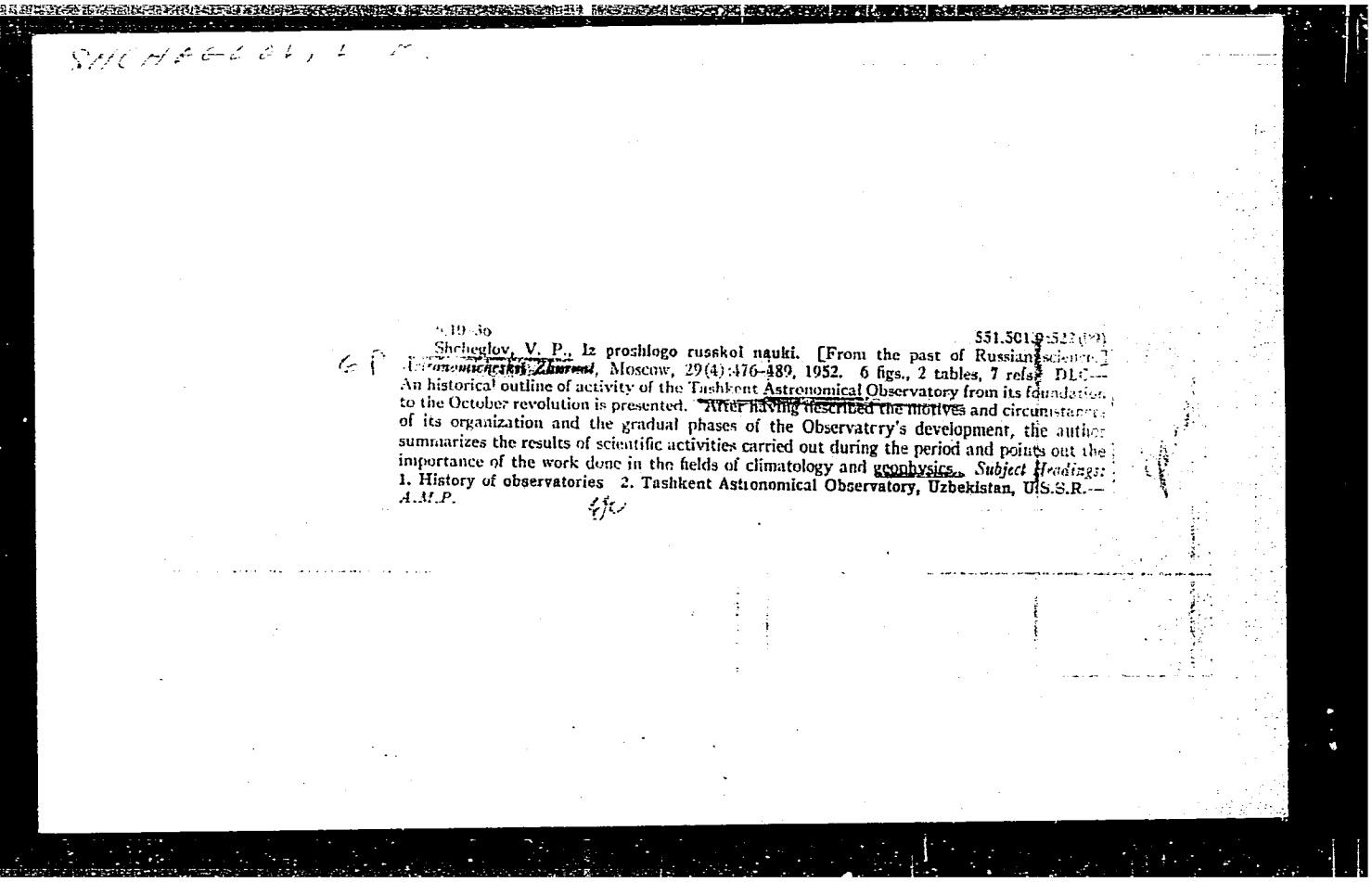
SHCHERLOV, V. P.

V. P. Shcheglov

A Test Pertaining To The Analysis of Certain Systematical Mistakes Resulting From The Use of Portable Instruments for the Estimation of The Time Element

Astronomical Journal, Academy of Sci USSR, Moscow
Vol. 27, No. 6, November-December 1950, pp. 357-372

From: Monthly list of Russian Accessions
December 1950, Vol. 3, No. 9, p. 29



Shcheglov, V. P., Iz proshlogo russkoi nauki. [From the past of Russian science.] Astronomicheskii Zhurnal, Moscow, 29(4):476–489, 1952. 6 figs., 2 tables, 7 refs. DLC—
An historical outline of activity of the Tashkent Astronomical Observatory from its foundation to the October revolution is presented. After having described the motives and circumstances of its organization and the gradual phases of the Observatory's development, the author summarizes the results of scientific activities carried out during the period and points out the importance of the work done in the fields of climatology and geophysics. *Subject Headings:* 1. History of observatories 2. Tashkent Astronomical Observatory, Uzbekistan, U.S.S.R.—
A.M.P.

551.501.9:522(09)

1. TERNSHTEYN B., SHCHEGLOV V., KULESHOVA K.

2. USSR (600)

4. Occultations

7. Tashkent observations of lunar occultation of stars. Astron.tsir. No. 110. 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. [illegible]

2. [illegible]

3. Astronomical observatories

4. Problem of the geographic coordinates and azimuth of the summit of the observatory of Ulugbek in the city of Samarkand. Astron. zhur. 30, No. 2, 1953. pp. 224-228

Relics of this ancient observatory were found in 1908 by archaeologist V. L. Vyatkin, who is buried there. New Research was conducted in 1941 under the guidance of astronomer G. D. Dzhalyalov and the writer, and ancient instruments investigated. Received 25 Nov 52.

251T11

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

SHCHEGLOV, V.P.

From the past of Russian science. Pages from the history of the Tashkent Astronomical Observatory; Petr Karlovich Zalesskii. Astron.zhur. 30 no.4: 442-451 Jl-Ag '53. (MLRA 6:8)

(Zalesskii, Petr Karlovich, 1850-1916)

SHCHEGLOV, V.P.; SLONIM, Yu.M., redaktor; SKRIPNIK, M.V., redaktor; BABAKHANOVA, A.G., tekhnicheskiy redaktor.

[Eclipse of the sun on June 30, 1954] Solnechnoe zatmenie 30 iiunia 1954 goda. Tashkent, Izd-vo Akad. nauk UzSSR., 1954. 30 p. [Microfilm]
(Eclipses, Solar--1954) (MLRA 7:11)

SHCHEGLOV, V. P.

USSR/ Astronomy - Astronomical equipment

Card 1/1 : Pub. 86 - 7/40

Authors : Shcheglov, V. P., Prof.

Title : Tashkent astronomical observatory

Periodical : Priroda 43/4, 59-63, Apr 1954

Abstract : An account is given of the contribution made to astronomical knowledge by early investigators of Central Asia, and the establishment of an observatory at Tashkent is presented as a continuation of their work. A description is given of the equipment of this observatory and the work of its personnel, principally in the line of gravimetry researches. Illustrations.

Institution : .....

Submitted : .....

SHCHEGLOV, V.P., professor.

Observations of the solar eclipse of June 30, 1954, by the expedition of the Tashkent Astronomical Observatory of the Academy of Sciences of the Uzbek S.S.R. Astron.tsir. no.151:10-12 Jl '54. (MLRA 8:3)

1. Director Tashkentskoy Astronomicheskoy observatorii.
(Eclipses, Solar--1954)

SHCHEGLOV, V. P.

"History of Tashkent Astronomical Observatory" from Works of the Historical Inst. on Natural Sciences and Engineering, Vol. 5, p. 337, 1955.

SHCHEGLOV, V. P.

Pages from the history of Tashkent Astronomical Observatory. Study of variation in latitude at Tashkent. Astron.zhur.32 no.6:563-570 N-D '55. (MLRA 9:2)

1. Tashkentskaya astronomicheskaya observatoriya.
(Tashkent--Latitude variation)

SHCHEGLOV, V.P.

Moments of immersion and emersion in occultation of Mercury by the moon, observed at Tashkent on July 18, 1955. Astron.tsir. no.162: 13 Ag '55. (MLRA 9:5)

1. Direktor Tashkentskoy astronomicheskoy observatorii.
(Occultations) (Mercury (Planet))

SHCHEGLOV, V.P., professor.

Observations of the partial solar eclipse of December 14, 1955, at the Tashkent Astronomical Observatory. Astron.tsir.no.166:1 Ja '56. (MLRA 9:7)

1.Direktor Tashkentskoy astronomicheskoy observatorii.
(Eclipses, Solar--1955)

SHCHEGLOV, V.P.

Astronomical investigations in Uzbekistan during the last 40 years (1917-1957). Trudy Tashk. astron. obser. Series 2 6:5-15 '57. (MIRA 11:11)

(Uzbekistan--Astronomy)

33-4-16/19

AUTHOR: Shcheglov, V. P.

TITLE: The Chardzhuy [Chardzhou] International Latitude Station. (Chardzhuyskaya mezhdunarodnaya shirotnaya stantsiya.)

PERIODICAL: Astronomicheskiy Zhurnal, 1957, Vol.34, No.4, pp.664-670 (USSR)

ABSTRACT: A short history is given of the Chardzhuy [Chardzhou] International latitude Station. The station was set up in 1899 and ceased to exist in 1919. During that time about 35,000 instantaneous values of latitude were determined. These were used by the International Latitude Service in studies of the motion of the pole of the earth.

The construction of the Station was carried out under the direction of Poslavskii. It consisted of a pavilion for a zenith-telescope and a small house for the caretaker.
There are 4 figures, 2 tables and 7 references, 5 of which are Slavic.

SUBMITTED: February, 24, 1957.

ASSOCIATION: The Tashkent Astronomical Observatory. (Tashkentskaya Astronomicheskaya Observatoriya)

AVAILABLE: Library of Congress

Card 1/1

SHCHEGLOV, V.P., professor

Astronomical observatories in China. Priroda 46 no.4:63-69 Ap '57. (MLRA 10:5)

1. Chlen-korrespondent Akademii nauk Uzbekskoy SSR, Tashkentskaya astronomicheskaya observatoriya Akademii nauk Uzbekskoy SSR.
(China--Astronomical observatories)

3(1) PHASE I BOOK EXPLOITATION SOV/1463

Shcheglov, V.P.

Observatoriya Ulugbeka v Samarkande (Ulugbek Observatory in Samarkand) Moscow, Izd-vo AN SSSR, 1958. 12 p. 2,300 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Astronomicheskiy sovet, and Akademiya nauk Uzbekskoy SSR, Tashkent.

Resp. Ed.: Kulikovskiy, P.G.; Ed. of Publishing House: Veger, A.L.; Tech. Ed.: Guseva, I.N.

PURPOSE: This booklet is intended for the general public.

COVERAGE: This is a brief, well illustrated booklet published by the Astronomical Council of the AN SSSR on the occasion of the 10th International Astronomical Meeting held in Moscow on August 12-20, 1958. It describes the restored 15th century Ugulbek Observatory (39°40'6 lat, 4h 28m, 1 long) near Samarkand, discovered in 1908 by the archaeologist V.L. Vyatkin.

Card 1/2

Ulugbek Observatory in Samarkand SOV/1463

An outstanding feature of the observatory, named after its founder Mukhamed Turgay Ugulbek, is a well preserved section of a giant meridian sextant, with an axial astronomical azimuth of 0° 10' 4. The text contains 8 photographs. There are no references given.

TABLE OF CONTENTS: None given

AVAILABLE: Library of Congress

MM/mas

Card 2/2

PHASE I BOOK EXPLOITATION 970

Shcheglov, V.P.

Tashkentskaya astronomicheskaya observatoriya (Tashkent Astronomical Observatory) Moscow, Izd-vo AN SSSR, 1958. 17 p. 2,300 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR, Akademiya nauk Uzbekskoy SSSR.

Resp.Ed.: Kulikovskiy, P.G.; Tech. Ed.: Guseva, I.

PURPOSE: This pamphlet was issued in connection with the International Astronomical Conference held in Moscow from August 12 to 20, 1958.

COVERAGE: The booklet describes the Tashkentskaya astronomicheskaya observatoriya (Tashkent Astronomical Observatory), situated on an area of 6 hectares in Tashkent, capital of Uzbekskaya SSR,

Card 1/2

KULAGIN, S.G.; KOVBASYUK, L.E.; DAGAYEV, M.M.; ROZENBLYUM, N.D.; YEGORCHENKO, I.F.(Irkutsk); KAVERIN, A.A. (Irkutsk); KONSTANTINOVA, T.G. (Irkutsk); KUKLINA, V.A. (Irkutsk); KUKLIN, G.V. (Irkutsk); SAZONOVA, Z.G., (Irkutsk); CHERNYKH, L.I. (Irkutsk); CHERNYKH, N.S. (Irkutsk); DEMIDOBICH, Ye.G.; BRONSHTEN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; KLYAKOTKO, M.A.; PARENAGO, P.P.; SHCHERBINA-SAMOYLOVA, I.S.; MASEVICH, A.G.; RYABOV, Yu.A.; SHCHEGLOV, V.P.; PEREL', Yu.G.; MARTYNOV, D.Ya.; FEDYNSKIY, V.V.; VORONTSOV-VEL'YAMINOV, B.A.; ZIGEL', F.Yu.; BAKULIN, P.I., otv.red.; RAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar] Astronomicheskii kalendar'. [A yearbook; variable section for 1959] Ezhegodnik. Peremennaia chast', 1959. Red.kollegiia P.I. Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1958. 370 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no.62) (MIRA 12:2)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (for Kulagin, Kovbasyuk, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (for Dagayev, Rozenblyum, Bronshten, Perova).

(Astronomy--Yearbooks)

SHCHEGLOV, V.P.

D.D. Gedeonov's letters to V.V. Vitkovskii. Comments by V.P. Shcheglov. Ist.-astron.issl. no.4:509-571 '58. (MIRA 11:10)
(Vitkovskii, Vasilii Vasil'evich, 1856-1924)
(Gedeonov, Dmitrii Danilovich, 1854-1908)

SOV-26-58-11-7/49

AUTHOR: Shcheglov, V.P., Professor, Associate of the AS of the Uzbek SSR

TITLE: The Kitab International Latitude Station (Kitabskaya mezhdunarodnaya shirotnaya stantsiya)

PERIODICAL: Priroda, 1958, Nr 11, pp 46 - 49 (USSR)

ABSTRACT: For about 30 years the Kitabskaya Mezhdunarodnaya shirotnaya stantsiya im. Ulugbeka (Kitab International Latitude Station imeni Ulugbek) in the Kashka-Dar[illegible]inskaya Oblast' on the 3908 parallel has operated without interruption. It is participating in the IGY. In addition to the former zenith-telescope (photo 1) of the firm of Bamberg, a new APM-2 zenith telescope (photo 3) made in the USSR was installed in a new pavilion (photo 2) early in 1957. The APM-2 has a lens aperture of 180 mm and a focal length of the tube of 2,360 mm. Zenith telescopes have been installed in the Pulkovskaya observatoriya (Pulkovo Observatory), the Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga (tate Astronomical Institute imeni P.K. Shternberg) in Moscow, the Astronomicheskaya observatoriya im. V.P. Engel'gardta (Astronomical Observatory imeni V.P. Engel'gardt) near Kazan', the Observatoriya Irkutskogo gosudarst-

Card 1/2

The Kitab International Latitude Station SOV-26-58-11-7/49

vennogo universiteta (Observatory of Irkutsk State University), and the latitude station of the Pulkovo Observatory in the district of Blagoveshchensk. Further improvements of the Kitab station include the construction of a new electric power station, a fire pool, and improved road and housing conditions. Another international latitude station has been built in the district of Tyan'tszin' in China. It also has received an APM-2 zenith telescope. The assistants of the Chinese AS, Professor Chzhou I-sin' and Lecturer Lo Din-tszyan trained for latitude observations in the USSR. There are 4 photographs and 2 Soviet references.

ASSOCIATION: Tashkentskaya astronomicheskaya observatoriya (Tashkent Astronomical Observatory)

1. Astronomical observatories — USSR

Card 2/2

SHCHEGLOV, V.P.

Vsesoyuznoye astrometricheskoye soveshchaniye.

Trudy [illegible] Astrometricheskogo soveshchaniya SSSR, Kiyev, 27-30 maya 1958 g. (Transactions of the [illegible] Conference of the USSR, Held in Kiyev 27-30 May 1958) Moscow, Izd-vo AN SSSR, 1959. 440 p. Errata slip inserted. 1000 copies printed.

Sponsoring Agency: [illegible] Glavnaya astronomicheskaya observatoriya (Pulkovo).

Resp. Ed.: N. S. Evnin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: M. K. Zaytseva; Tech. Ed.: T. A. Shmeleva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly those interested in astrometrical problems.

COVERAGE: This publication presents the Transactions of the 14th Astrometrical Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports and 55 scientific papers presented at the plenary meeting of the Conference

Card 1/26

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astrometrical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Omegira, and Kh. I. Potter.

TABLE OF CONTENTS:

S/035/61/000/004/001/058
A001/A101

3.1420

AUTHOR: Shcheglov, V. P.

TITLE: Astrometric works accomplished by the Tashkent Astronomical Observatory of the Academy of Sciences, UzSSR, in 1956-1957

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 4, 1961, 3, abstract 4A28 ("Tr. 14-y Astrometr. konferentsii SSSR. 1958", Moscow-Leningrad, AN SSSR. 1960, 56-57, English summary)

TEXT: All works on the absolute catalogue of direct ascensions of 623 ФКС3 (FKSZ) stars have been completed. Determinations of direct ascensions of 92 circumpolar stars have been carried out with a meridian circle. Relative determinations of direct ascensions of КС3 (KSZ) stars in the zone from -5 to -20° have begun. About 130 photographs of extragalactic nebulae and 50 photographs of selected minor planets were taken by means of a normal astrograph. The work of time service was continued. The third transit instrument, two new radio receivers and two quartz clocks of the "Schwarz and Rode" firm started regular work. Clock corrections were determined according to different programs, with the purpose of their comparison. Direct ascensions of major planets were also observed with

Card 1/2

Astrometric works accomplished by ...

S/035/62/000/004/001/058
A001/A101

the transit instrument. Earth's artificial satellites were observed.

A. Naumova

[Abstractor's note: Complete translation]

Card 2/2

LOGINOV, P.P.; BAL'ZHINOVA, B.Zh.; YASEVICH, B.V.; SHCHEGLOV, V.P., otv. red.; GOR'KOVAYA, Z.P., tekhn. red.

[Theory of meridiar instruments and results of astronomical observations]Teoriia meridiannykh instrumentov i rezul'taty astronomicheskikh nabliudenii. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1961. 121 p. (MIRA 16:1)

1. Chlen-korrespondent Akademii nauk Uzbekskoy SSR (for Shcheglov).

(Transit instruments)
(Astronomy--Observations)

STARTSEV, Pavel Alekseyevich; SHCHEGLOV, V.P., prof., red.UGAROVA, N.A., red.; PLAKSHE, L.Yu., tekhn. red.

[Outline of the history of astronomy in China] Ocherki istorii astronomii v Kitae. Pod red. V.P.Shcheglova. Moskva, Gos. izd-v fiziko-matem. lit-ry, 1961. 153 p. (MIRA 14:6)
(Astronomy, Chinese)

SHCHEGLOV, V.P.

History of the Tashkent Astronomical Observatory. Ist.-astron.issl. no.8:363-371 '62. (MIRA 16:3)
(Tashkent Astronomical Observatory)

SHCHEGLOV, V.P., starshiy tekhnik

Table for determining the wear of the TFU-100 overhead contact line. (MIRA 15:1)
Elek.i tepl.tiaga 6 no.1:7 of cover Ja '62.
(Electric railroads--Wires and wiring)

SHCHEGLOV, V.P., starshiy tekhnik

Table for determining the wear of TF-150 overhead wires. Elek.i tepl.tiaga 6 no.4:3-4 of cover Ap '62. (MIRA 15:5)
(Electric railroad--Wires and wiring)

POPOV, I.S., akad; SHCHEGLOV, V.V., aspirant

Efficient utilization of protein feeds in livestock raising [with summary in English]. Izv. TSKhA no.4:127-142 '60. (MIRA 13:9)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina (for Popov).
(Swine--Feeding and feeds) (Proteins)

SHCHEGLOV, V. V. Cand Agr Sci -- "Domestic production fish powder and its use in meat-diet fattening of pigs." Saratov, 1960 (Saratov Zoovet Inst).

(KL, 1-61, 203)

DAIDBEKOV, S.D., kand.tekhn.nauk; SHCHFGLOV, V.V., slesar'-mekhanik

Device for group stressing of high-strength reinforcements. Biul. tekh.inform.po stroi. 5 no.12:20-21 '59. (MIRA 13:4)
(Reinforcing bars)

SHCHEGLOV, V.V.

Surgical treatment of tumors of the liver. Khirurgiia 34 no.8:139-143 Ag '58 (MIRA 11:9)

1. Iz khirurgicheskogo otdeleniya (zav. V.V. Shcheglov) Stalingradskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach- zaslyzhennyy vrach RSFSR K.M. Petrov) i akusherako-ginekologicheskoy kliniki (zav. kafedroy - prof. Ya.G. Bukhanov) Stalingradskogo meditsinskogo instituta (dir. - prof. V.S. Yurov).
(LIVER NEOPLASMS, surg.
case reports (Rus))

SHCHEGLOV, V.V.

Operation in cardiospasm. Khirurgiia 35 no.10:120-121 O '59.
(MIRA 12:12)

1. Iz otdeleniya grudnoy khirurgii (zav. V.V. Shcheglov) Stalingradskogo oblastnogo onkologicheskogo dispansera.
(CARDIOSPASM surgery)

TASHCHILIN, V.A.; SHCHEGLOV, V.V.

Effect of antibiotics on swine fattening in the new swine houses. Zhivotnovodstvo 23 no.2:38-40 F '61. (MIRA 15:11)

1. Kafedra kormleniya sel'skokhozyaystvennykh zhivotnykh Moskovskoy sel'skokhozyaystvennoy akademii imeni K.A.Timiryazeva.
(Swine--Feeding and feeds) (Antibiotics)

L 26006-66 EWT(d)/EWT(m)/EWP(f)/T-2 GS

ACC NR: AT6013436 (N,A) SOURCE CODE: UR/0000/65/000/000/0032/0040

AUTHOR: Shcheglov, Ya. M.

ORG: Kharkov Polytechnic Institute (Khar'kovskiy politekhnicheskiy institut)

TITLE: Auxiliary diagrams for determining the parameters of gas-turbine supercharging under nonstandard operating conditions of a composite engine

SOURCE: Dvigateli vnutrennego sgoraniya (Internal combustion engines), no. 1. Kharkov, Izd-vo Khar'k. univ., 1965, 32-40

TOPIC TAGS: gas turbine engine, turbosupercharged engine, heat balance, adiabatic process, gas flow / D70B gas turbine engine

ABSTRACT: A series of diagrams is presented which simplifies calculations of nonstandard operating conditions of an engine with supercharging by a self-contained gas-turbine supercharger and with supercharging in which one stage of the turbine is connected to a compressor while the other supplies power to the crankshaft. The diagrams show the relationship between the degree of pressure increase in the compressor (π_c), the degree of expansion of the gas in the turbine (π_t), and the gas temperature after the engine (t_t). Diagrams for determining $\bar{\psi}$, a coefficient taking into account the distinction between the gas flow through a given turbine under normal conditions and the gas flow through a single stage active turbine, and α_N, the ratio of

Card 1/2

L 26006-65

ACC NR: AT6013436

the adiabatic work of the gas in the turbine stage connected to the compressor to the adiabatic work of the gas in the entire turbine, are also given. The experimental dependence $\sigma_N = f(\pi_t)$ is obtained for a D70B engine, which confirms the reliability of the proposed dependences. A possible order of application of the diagrams is examined briefly. The proposed diagrams do not eliminate the need for data on the indicated efficiency of the engine, the heat of the fuel lost in the walls, or the friction losses and the pressure losses in the air filter and the air cooler. Orig. art. has: 8 formulas and 5 graphs.

SUB CODE: 21/ SUBM DATE: 20Apr65/ ORIG REF: 003

Card 2/2

GLADILOV, G.V., inzh.; SHCHEGLOV, Ya.M., inzh.

Economic efficiency of the performance of diesel locomotive engines. Trudy KHIIT no.50:23-35 '61. (MIRA 15:12)
(Diesel engines--Testing)

SHCHEGLOV, Ya.M., inzh.

Study of the effect of output counterpressure and the quality of blow-through on parameters of the operational efficiency of the D100 diesel engine. Teplovoz.i sud.dvig. no.3:89-102 '62. (MIRA 16:2)

(Diesel engines)

SOV/174-58-5-25/37

22(3)

AUTHOR: Shcheglov, Ye.V., Guards Lieutenant General of Artillery

TITLE: Make Greater Use of the Journal in Practical Work (Bol'she ispol'zovat' zhurnal v prakticheskoy rabote).

PERIODICAL: Artilleriyskiy zhurnal, 1958, Nr 5, pp 23-28 (USSR)

ABSTRACT: The author has been a reader of the Journal since 1925-31. At that time the Journal was entitled:"Red Artillery and Armour" later renamed: "Artillery Compilation" (Artilleriyskiy sbornik). The Journal was of great help to artillery commanders during the war, when the article on "Artillery Offensive" was published in 1942 by Colonel (now Colonel General of Artillery) F.A. Samsonov. It helped to reduce the time necessary for the commanders to prepare their units for offensive operations. Articles by General Zhdanov, N.N. on artillery reconnaissance and on combating the enemy artillery and mortar fire are also mentioned. The

Card 1/3

Make Greater Use of the Journal in Practical Work

mobile character of modern operations, necessitates new methods of fire control and of reduction in time needed for fire adjustment and fire concentration. Articles appeared on methods of tying-in combat formations, of target designations, on target grids and on estimates of gun settings and ammunition. Tables were recommended for the use of the troops such as those published in Nr 10 of 1956 (on adjusted results passed from one post to another on target designation by lateral observation posts) and in Nr 1 of 1955 (on computing horizontal range and azimuth angle). The author mentions the names of his former colleagues, teachers at the Odessa Artillery School, contributors to the Journal: Trekhnov, Shkurnikov, Kavtaradze, Levin (no ranks given). He mentions the titles of the following articles: by D.A. Morozov "Tactical Training of a Battery" (Takticheskoye ucheniye batarei);

Make Greater Use of the Journal in Practical Work

by A.A. Voychuk "Commanders' Battle Order" (Boyevoy prikaz komandira); by I.I. Alekseyev "A Staff Training Exercise" (Shtabnyye trenirovochnyye zanyatiya); by O.S,Tsarikayev "A Comprehensive Exercise of the HQ Platoon" (Kompleksnoye zanyatiye so vzvodom upravleniya); by Colonel I.G. Kolotilin "A Battery in Offensive Combat" (Batareya v nastupatel'nom boyu) and by Major General of the Artillery G.I. Blinov "It is Time to Drop Old Ideas" (Pora otkazat'sya ot starykh vzglyadov). Other great names took part in the activities of the Journal such as Academician A.N. Kolmogorov and Professor V.I. Romanovskiy (no titles of their articles or subjects are given). At the end of his article, the author suggests that greater attention be paid to tactical problems of smaller units, especially in night operations, and to training in firing on aerial targets.

Card 3/3

SHTEYNBERG, O.; SHCHEGLOV, Yu. [Shchɵhlov, IU.]

Sun for all. Znan. ta pratsia no.7:5-7 Jl '61. (MIRA 14:8)
(Labor and laboring classes--Dwellings)

SHCHERBAKOV, Yu.

Way to mastery. Voen. znan. 40 no.1:43-44 Ja '64. (MIRA 17:4)

1. Kapitan komandy po morskomu mnogoborʹyu Vsesoyuznogo dobrovolʹnogo obshchestva sodeystviya armii, aviatsii i flotu, Gorʹkiy.

BORZUNOV, Leonid Vasil'yevich; BOLOGA, Mirchya Kirillovich; KOROTUN, Vasiliy Nikitovich; SYROV, B.G., red.; SHCHEGLOV, Yu.A., red.

[Energy characteristics of the solar regime of Moldavia] Energeticheskie kharakteristiki solnechnogo rezhima Moldavii. Kishinev, Izd-vo "Shtiintsa," 1962. 42 p. (MIRA 18:5)

SINYAGIN, I.I., red.; MOVSISYANI, A.P., otv. za vypusk; SHCHEGLOV, Yu.A., red.; NIKOLAYEVA, G.F., red.; LUKASHEVICH, V., tekhn.red.

[Problems of agriculture and erosion control in steppe and forest-steppe regions of the U.S.S.R.; materials of the out session of the Lenin All-Union Academy of Agricultural Sciences held in Saratov from October 7th-14th, 1958] Voprosy zemledeliia i bor'by s eroziei pochv v stepnykh i lesostepnykh raionakh SSSR; materialy vyezdnoi sessii VASKhNIL 7-14 oktiabria 1958 goda, g.Saratov. Saratov, Saratovskoe knizhnoe izd-vo. Vol.1. 1959. 348 p. Vol.2. 513 p. (MIRA 13:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Glavnyy uchenyy sekretar' prezidiuma Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina; chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Sinyagin).
(Agriculture) (Soil conservation)

SHCHEGLOV, Yu.A.; GOL'DENBERG, L.G.; FAKTOROVICH, A.A.; KRASNOLOB, K.Ya.

Automation of cut tomatoes receiving points and pumped transfer points of continuous lines in tomato processing. Izv. AN Mold. SSR. no.3:107-112 '63. (MIRA 17:12)

SHCHEGLOV, Yu. O.

USSR/ Miscellaneous - Tools

Card 1/1 : Pub. 103 - 21/29

Authors : Shelepin, V. N., and Shcheglov, Yu. D.

Title : Eccentric cotter-pin turner

Periodical : Stan. i instr. 9, page 36, Sep 1954

Abstract : A universal, eccentric cotter-pin setter and remover, developed by one of the Machine Construction Plants in Moscow, is briefly described. Drawing.

Institution : ...

Submitted : ...

SHCHEGLOV, Yu. D.

USSR/Engineering - Tools

Card 1/1 Pub. 103 - 23/29

Authors : Shelepin, V. N., and Shcheglov, Yu. D.

Title : \ gang tap for cutting threads on sleeve joints

Periodical : Stan. i instr. 10, page 35, Oct 1954

Abstract : A short description is presented of a gang cutter (tap) for cutting inner threads on couplings and sleeve joints. Drawings.

Institution : ...

Submitted : ...

SHCHEGLOV, Yu.M.

Calculation of transient processes in ferrite-transistor stages with readout of unit information. Trudy MEI no.41:81-94 '62.
(MIRA 16:7)
(Electronic computers)

SHIGIN, A.G.; SHCHEGLOV, Yu.M.

Special features of the operation of a ferrite-transistor stage.
Trudy MEI no.41:61-80 '62. (MIRA 16:7)

(Electronic computers—Circuits)

Name: SHCHEGLOV, Yu. S.

Dissertation: Some forms of weed and wild rye and their use in breeding in the central zone of the non-Chernozem belt

Degree: Cand Agr Sci

Affiliation: Moscow Order of Lenin Agricultural Acad imeni K. A. Timiryazev

Defense Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 1, 1957

SHCHEGLOV, Yu.V., inzh.

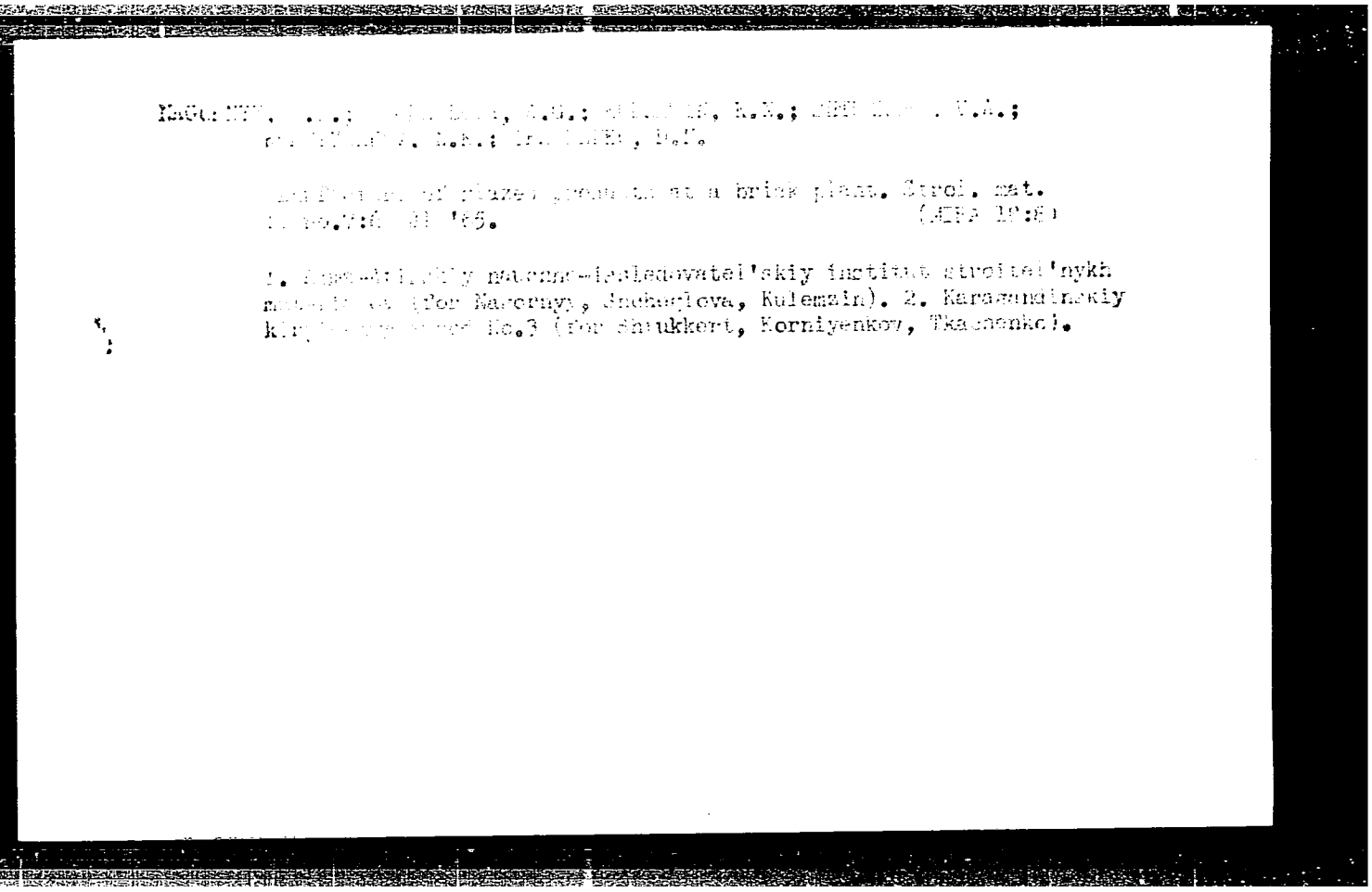
Office interpretation of echograms. Izv. vys. ucheb. zav.; gor. zhur. 7 no.5:41-46 '64. (MIRA 17:12)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V. Plekhanova. Rekomendovana kafedroy marksheyderskogo dela.

VASIL'YEVA, N.N., kand. med.nauk; GOLUBEVA, K.I., kand. med. nauk; GUL'KEVICH, Yu.V., prof.; DAL', M.K., doktor med.nauk, prof.; IL'INA, A.V., kand.med. nauk; LEVKOYEVA, E.F., doktor med.nauk, prof.; MASLOVA, I.P., kand. med.nauk; PRIGOZHINA, A.I., kand. med.nauk; UGRYUMOV, B.P., prof.; SHATILOVA, T.A., kand. med.nauk; SHCHEGLOVA, A.A., kand. med.nauk; DVIZHKOV, P.P., prof., red. toma; STRUKOV, A.I., prof., red. toma; OSTROVERKHOV, G.Ye., prof., glav. red.; APATENKO, A.K., kand. med. nauk, nauchn. red. toma

[Multivolume handbook on pathological anatomy] Mnogotomnoe rukovodstvo po patologicheskoi anatomii. Otv. red. A.I. Strukov. Moskva, Medgiz. Vol.1. [History of pathological anatomy, pathological anatomy of the endocrine glands, skin, ear, and eye] Istoriia patologicheskoi anatomii; patologicheskaia anatomiia zabolevanii endokrinnykh zhelez, kozhi, ukha i glaza. Red. toma: P.P.Dvizhkov i dr. 1963. 670 p. (MIRA 16:11)

1. Chlen-korrespondent AMN SSSR (for Strukov).
(ANATOMY, PATHOLOGICAL)



AUTHORS: Ivanov, V.K., Shcheglova, A.I. SOV/7-58-4-12/13

TITLE: Germanium in the Pit Waters of the Kizel Coal District (Germaniy v shakhtnykh vodakh Kizelovskogo kamennougol'nogo basseyna)

PERIODICAL: Geokhimiya, 1958, Nr 4, pp. 389 - 391 (USSR)

ABSTRACT: Germanium was determined colorimetrically with phenyl fluoron. In order to separate disturbing elements it was extracted with carbon tetrachloride from 9 n hydrochloric acid after neutralization and evaporization. The pit water from 13 out of 20 investigated pits contained germanium. The germanium content was by 2 - 6 times higher than the sensitivity of the method of analysis and attained up to 3mg/m^3. The place of sample taking, the depth of the pit, the free sulfuric acid in the pit water (mg/l), the supply of pit water in m^3/h and the found germanium content (mg/m^3) are represented in a talbe. The germanium quantity which is pumped out annually with the pit water amounts to approximately 200 kg. The coal field yields annually approximately 11 million tons of water in which probably

Card 1/2

Germanium in the Pit Waters of the Kizelov Coal District

SOV/7-58-4-12/13

several tons of germanium are contained. Germanium is washed out to a relatively small extent; therefore it may be assumed that germanium is bound closely to the organic substance of the coal. There are 1 table and 6 references, 4 of which are Soviet.

ASSOCIATION: Ural'skiy filial AN SSSR, Sverdlovsk (Sverdlovsk Ural Branch AS USSR)

SUBMITTED: January 22, 1958

1. Germanium--Determination 2. Germanium--Separation 3. Germanium --Sources 4. Colorimetric analysis--Applications

Card 2/2

SHCHEGLOVA, A. I.

39/49T62

Mar 49

USSR/Medicine - Rodents
Medicine - Water, Metabolism

"The Peculiarities of Water Change in Rodents in Connection With Their Life Conditions," A. I. Shcheglova, Inst Physiol of Cen Nervous Syst, Acad Med Sci USSR, 4 pp ✎ according to copy folder, now called: Inst of Physiology im. I. P. Pavlov, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXV, No 2

Attempts to establish degree to which various external conditions, in particular temperature, influence the water balance of the organism. In certain rodents it has a clearly defined adaptive nature. Submitted by Acad K. M. Bykov, 13 Jan 49.

39/49T62

1. SHCHEGLOVA, A. I.

2. USSR (600)

4. Pregnacy; Rodentia

7. Effect of pregnancy on the diurnal rhythm of activities in rodents.
Dokl. AN SSR 83 No. 6, 1952. Institut Fiziologii im. I.P. Pavlova Akademii Nauk SSR
rcd. 7 Aug. 1951

9. Monthly List of Russian Accessions. Library of Congress, September 1952. UNCLASSIFIED.

SHCHEGLOVA, A. I.

USSR/Biology - Water Metabolism 11 Apr 52

"Adaptation of the Water Metabolism of Some Species of Suslik to the Living Conditions of the Animals," A. I. Shcheglova, Inst of Physiol imeni I. P. Pavlov, Acad Sci USSR

"Dok Ak Nauk SSSR," Vol LXXXIII, No 5, pp 765-768

Detd interspecies variations of water metabolism in Spermophilosis leptodactylus Licht., Citellus pygmaeus Pall., Citellus fulvus Licht. Some susliks /gophers/ depend entirely on water contained in the food or formed from foodstuffs as a result of metabolic processes.

218T2

SHCHEGLOVA, A.I.; BYKOV, K.M., akademik.

Characteristics of water metabolism in muskrat. Dokl.AN SSSR 93 no.4:749-752 D '53. (MLRA 6:11)

1. Akademiya nauk SSSR (for Bykov). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Shcheglova). (Muskrats)

SHCHEGLOVA, A.I.

Physiological analysis of gnawing in the greater gerbil. Opyt izuch. reg.fiziol.funk. 4:184-197 '58. (MIRA 12:4)

1. Laboratoriya ekologicheskoy fiziologii (zaveduyushchiy - prof. Slonim) Instituta fiziologii imeni I.P. Pavlova AN SSSR.
(GERBILS)
(ANIMALS, FOOD HABITS OF)
(CONDITIONED RESPONSE)

SHCHEGLOVA, A.I.

Unconditioned salivary food reflexes and characteristics of water metabolism in muskrats. Opyt izuch.reg.fiziol.funk. 4:198-206 '58. (MIRA 12:4)

1. Laboratoriya ekologicheskoy fiziologii (zaveduyushchiy - prof. A.D. Slonim) Instituta fiziolgii imeni I.P. Pavlova AN SSSR.
(MUSKRATS)
(WATER IN THE BODY)
(SALIVARY GLANDS)

ARESHEVA, Z.S.; SHCHEGLOVA, A.I.

Unconditioned salivary food reflexes in greater gerbils and brown rats. Opyt izuch. reg. fiziol. funk. 6:91-98 '63 (MIRA 17:3)

Effect of fluid moisture on the water content of the organism in some rodents. Ibid.:98-106

1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR.

SHCHEGLOVA, A.I.; SHIRNOV, P.K.

Burrowing activity of some rodents at various environmental temperatures and solar radiation. Opyt izuch. reg. fiziol. funk. 63:110-113 '63 (MIRA 17:3)

1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR.

SHCHEGLOVA, A.I.

Characteristics of thermoregulation in the muskrat. Opyt izuch. reg. fiziol. funk. 6:183-190 '63 (MIRA 17:3)

1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR.

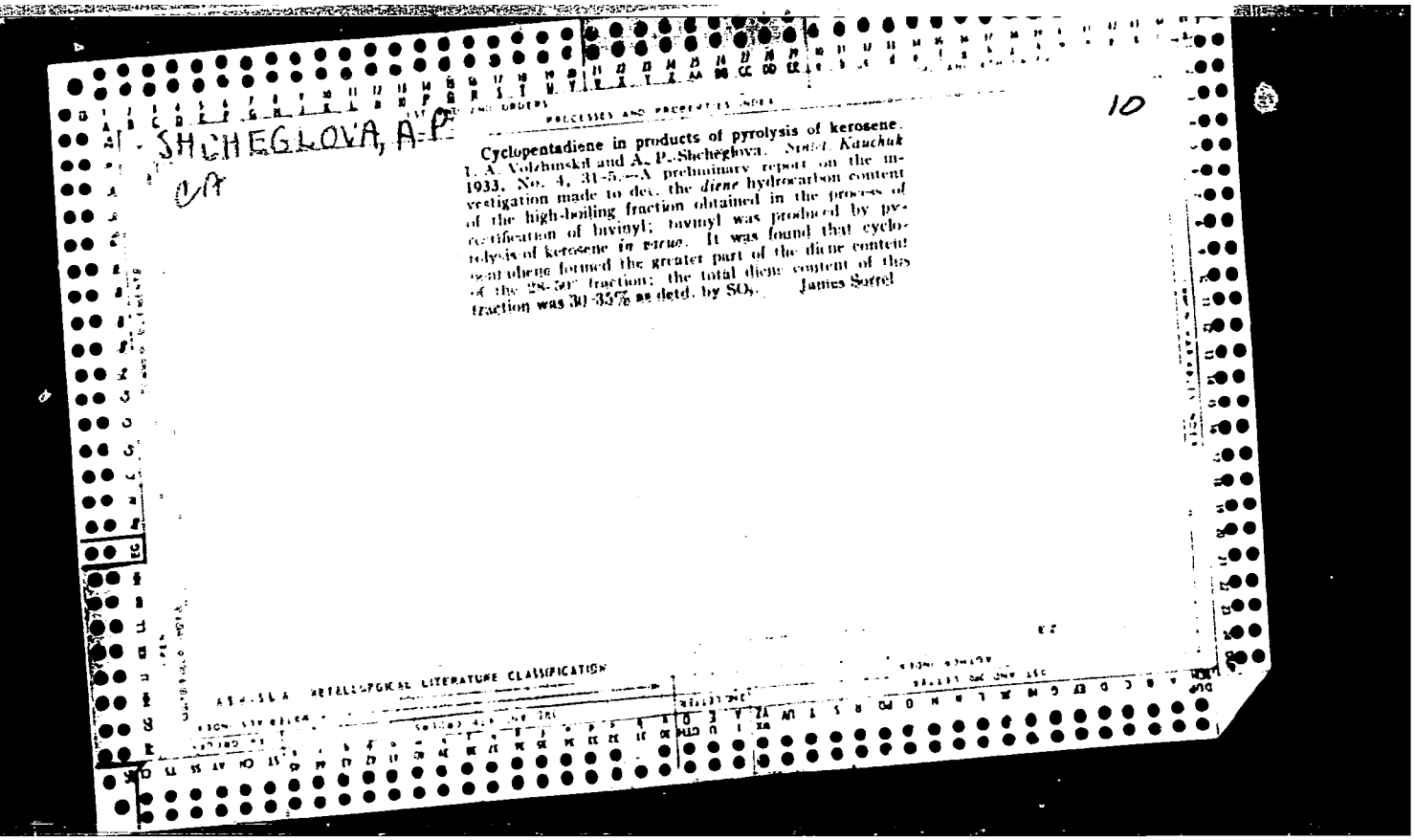
SMIRNOV, P.K.; SHCHEGLOVA, A.I.

Temperature regulation in desert rodents under the conditions of insolation and high temperatures. Vest. LGU 18 no.21: 12-18 '63 (MIRA 16:12)

SLONIM, A.D., otv. red.; CHERKEDNICHENKO, L.K., red.; SHCHEGLOVA, A.I., red.

[Complex behavior forms] Slozhnye formy povedeniia. Moskva, Nauka, 1965. 232 p. (MIRA 18:6)

1. Akademiya nauk SSSR. Ob"yedinennyy nauchnyy sovet "Fiziologiya cheloveka i zhivotnykh."



SHCHEGLOVA, A-P

10

Cyclopentadiene in products of pyrolysis of kerosene. L. A. Volzhinskiĭ and A. P. Shcheglova. *Sintet. Kauchuk* 1933, No. 4, 31–5.—A preliminary report on the investigation made to det. the *diene* hydrocarbon content of the high-boiling fraction obtained in the process of rectification of bivinyl; bivinyl was produced by pyrolysis of kerosene *in vacuo*. It was found that cyclopentadiene formed the greater part of the diene content of the 28–50° fraction; the total diene content of this fraction was 30–35% as detd. by SO_2. James Sorrel

METALLURGICAL LITERATURE CLASSIFICATION

SHCHEGLOVA, A. P.

Kinetics of the dehydrogenation of butylene on a chromium catalyst. A.A. Balandin, O.K. Bogdanova, and A.P. Shcheglova (Inst. Org. Chem. Acad. Sci. U.S.S.R., Moscow). Izvest. Akod. Nauk S.S.S.R., Otdel. Khim. Nauk 1946, 490-513; cf. C.A.40,6791^{4}.--(1) All expts. were made with the same type of Cr catalyst ("No. 41") tested for const. activity by the rate of dehydrogenation of butylene (I) to butadiene (II) at const. space velocity and temp., and regenerated in an air stream between runs. Convenient conditions for kinetic study are 540-70° and high space velocity, 11,500 l./l. catalyst/hr.; in this temp range, under p = 0.25 atm. (final pressure), equil. lies at not less than 30% dehydrogenation to II. Higher temp. favors side reactions. The amt. of II formed is independent of the length of the run (6,9,and 12 min.). At a time of contact r =).3 see., the apparent activation energy of I → H_2 + II is 26.26-27.9 kcal./mole at 551-600° and 34.34-34.74 at 535-559°. Examples of balance for 4 min., r 0.1 sec., vol. of catalyst 2 ml., p 180 mm. Hg: at 540°, I passed 1.541., gas collected 1.561.(in vol.%: II, by maleic anhydride, 5.5, absorbed in H_2SO_4 96.3,absorbed in Br$_2$ 0.4,II 3.2,satd. hydrocarbons 0.1),yield of II 5.6 mole%; at 570°,1.92,1.89(5.9,95.1,0.6,3.9,0.4)5.7; at 598°,1.92,2.0(7.8,92.0,0.6,6.3,1.1)8.1. For r= 0.3 sec.,12 sec.,vol.of catalyst 5 ml.,p 180mm. IIg: at 551°,3.63,3.84(6.8, 91.4,0.4,7.5,0.6)7.1;at 593°,3.62,4.15(14.5,82.7,0.4,15.4,1.2)10.6; at 600°(15 min.)5.0,5.58(16.73,81.1,0.4,17.2,1.2)19.1. (2) Variation of p from 180° to 350 mm.decreased the yield only from 5.5 to 4.8 mole %(at 547°,r 0.1 sec.,5 min.). This confirms, on the whole,complete coverage of the catalyst surface,the deviation being ascribed to some extent of decompn.of II. (3) In mixts.of I + II,over the same catalyst, both the dehydrogenation I→ II occur. The decompn. increases with the temp. and with the temp. and with the initial content of II in the mixt.; at 547 and 560°,the rate of decompn. of II exceeds that of its formation when the content of II is29.7%. Examples of balance: vol. of catalyst 2 ml. + 8 ml. crushed quartz, r 0.1 sec.,p 180 mm. Hg, 2l. mixt. passed in 5 min.: at 547°, I in initial mixt.100,87.8,70.3,and 50.6 mole %,II obtained 106,275,574,

and 907 ml.;at 560°,100,87.4,70.8,50.6,26.2,and 0 mole %,150,284,575,925,1360,and 1825 ml.;at 585°, 100,71.6,87.7,83.3,78.4,23.2,and 0 mole %,175,285, 309,363,436,1470,and 1674 ml. Similarly,decompn. of II on this catalyst increases with its content in mixts.EtOH+II where no dehydrogenation can take place;the rates of decompn. of II in these mixts. permit correction of the exptl. data for I+II mixts. to allow for the decompn.of II. Pure II is also decompd.on this catalyst.,the decompn. attaining 8.7% at 547 and 560°,r0.1 sec.,and 20% at 600°,r0.3 sec. (4)Propylene undergoes decompn. to the extent of 5-6% at 600°,r0.3 sec.,p 180,vol.of catalyst 5 ml. About 25-30% of the C_3H_6 decompd. forms C. In the products one finds,further,C_2H_4,H_2,CH_4,and C_2H_6. Example: 18 min.,C_3H_6 passed 11.74 g.,gas collected 6.17 l.(C_3H_6 21.3,C_2H_4 1.2,H_2 5.4,satd.2.0 wt.%), C_3H_6 reacted 5.9 mole %,C 0.14 g. (5)Examples of balance in mixts. I+H_2,r0.1 sec.,vol. of catalyst 2 ml.,total vol. of mixt. passed 2 l.: for 0,5.4,11.6,20.6,31.6,54.2 mole % H_2 in the mixt.,amt. of II obtained in 5 min. (at 547°)106,105,103,94,82,39 ml.,and (at 560°)150,142, 137,129,109,59 ml. At 585°,0,20.3,36.0,50.4,60.0,82.2 mole % H_2,amt. of II in 5 min. 160,130,87,67,49,0 ml. These expts. supply the data for correction for hydrogenation by the H_2 formed in the reaction I → II;this correction is seen to be small at low contents of H_2. (6)Evidently,only II,not I, suffers resinification and decompn. to C; it appears as if the II formed were removed from the active centers of the dehydrogenation, its decompn. taking place outside these centers.(7) the formula $y = 2B_1H/(B_1+z(1-B_1)+H)$(C.A.37, 2645²)(where y= no. of moles of the product leaving the catalyst tube per min.,relative to the No.ΣA_r of moles of mixt. entering the tube,z=ratio of the adsorption coeff. of the admixed compd. and that of the reactant,H= $ksl/\Sigma A_r$ where k=rate const. for 1 ml. catalyst,s=cross-section of the tube,l=length of catalyst column),can be simplified(by disregarding H) into $y=y_1B_1/(B_1+z(1-B_1))$, where y_1 corresponds to passing of the pure reactant. As B_1 =p/100(where p=percent of reactant in the initial mixt.),one has $z=((y_1/y)-1)/((100/p)-1)$. The exptl. data give for the relative adsorption coeffs. z (with respect to I,z=1)of the admixed substances: II(at 547 and 560°)9.7 and 9.5,resp.,H_2 (at 560 and 585°)0.79 and 1.27,resp. More rigorous treatment

leads to values very close to those obtained by the simplified formulas. With these figures, the kinetic equation for I → II + H_2 becomes $d(H_2)/dt$ = 104.5 (C_4H_8)/((C_4H_6) + 0.82(H_2)), relative to 1 ml. of catalyst. (8) The high adsorption coeff. of II as compared with that of I (very nearly 10 times as high) may be due to its conjugated double bond. On the other hand, the near equality of the adsorption coeffs. of I and H_2 ($a \cong 1$) is corroborated by the max. of the velocity of hydrogenation lying close to 50% compn. of the mixt., indicating approx. equality of the fractions of the active surface occupied by I and H_2.

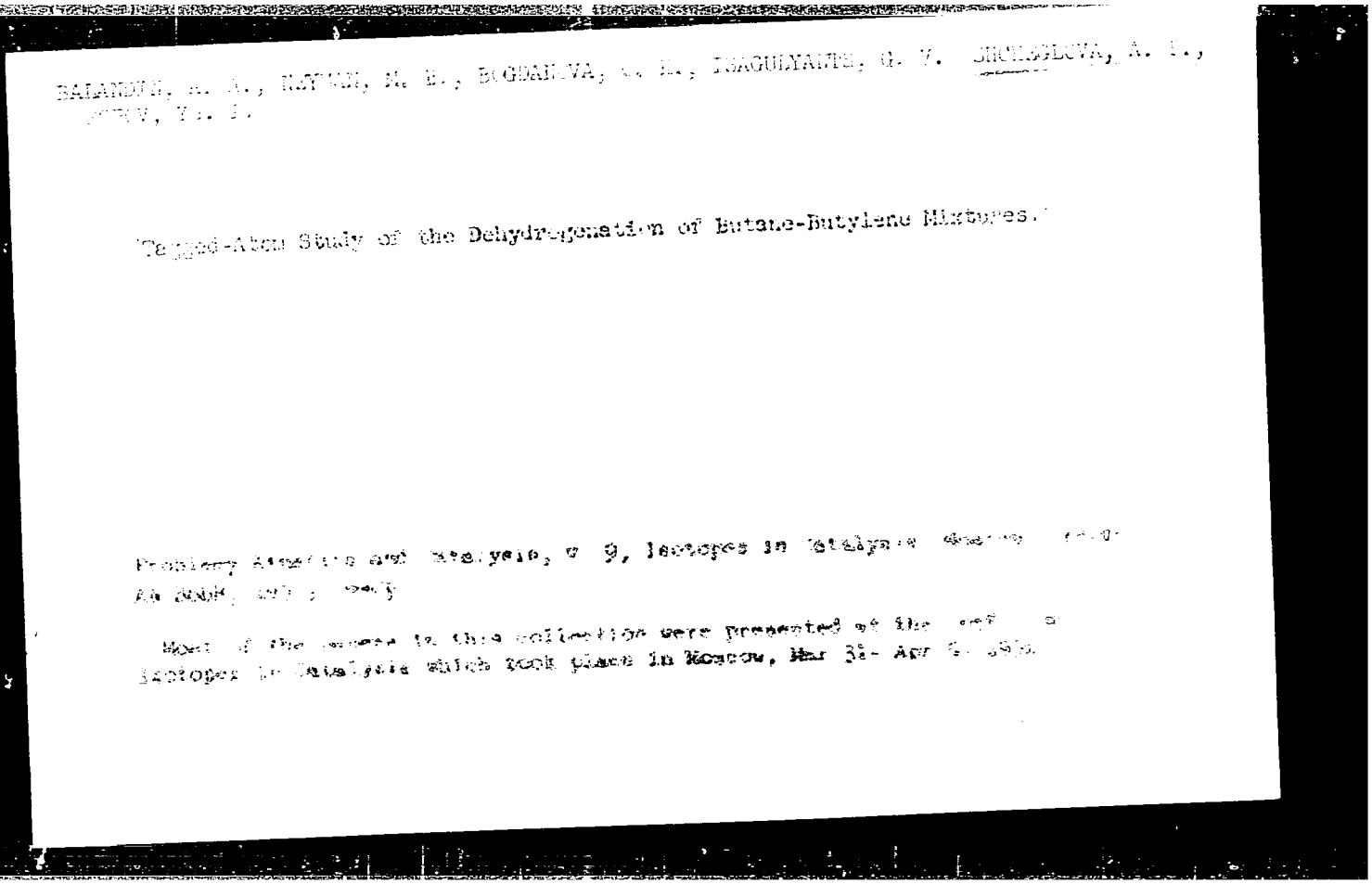
N. Thon

SHCHEGLOVA A. P.

1988

The free energy of the adsorptive displacement of butylene by water on a catalytic surface. A. A. Balandin, O. K. Bogdanova, and A. P. Shcheglova. *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1955, 723–33.—Equations are derived for detg. the equil. consts. of adsorptive displacement of one set of substances by others from a catalytic surface. These equations, including those for the free energy, are expressed in terms of dimensionless variables. A chrome catalyst (2 ml.) on 4 ml. crushed quartz was used. The substances studied were butylene and a mixt. of butadiene 90.8–91% and butylene 9–9.2%. In the gases collected from the process, butadiene was detd. by maleic anhydride; butylene and butadiene were absorbed in 84% H_2SO_4; C_2H_4 was absorbed by a soln. of mercuric sulfate in H_2SO_4; H and satd. hydrocarbons were detd. by combustion over copper oxide. Neither CO nor CO_2 could be detected in these gases. Measurements were made at 560, 580, and 600° (to ±0.25°). The butylene was dild. by water vapor, the water vapor concn. varying from 9 to 75% by vol. Previous work (*C.A.* 42, 6218g) had shown that the ratio of the adsorption coeffs. of butylene, butadiene, and water at 560° was 1:9.5:0.8. The relative adsorption coeff. at 560° (of displacing butylene by water vapor) was about 3.1, decreased with rising temp., and reached a value of 2.9 at 600°. The calcd. free energy of displacing butylene by water from an active surface was −4308 cal./mole at 833°K., and 2702 cal./mol. at 853°K. Finally, the water vapor suppresses polymerization of the butadiene. Also in *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1955, 643–53(Engl. translation). V. H. Gottschalk

Inst. Organic Chem. im. N.D. Zelinsky, AS USSR

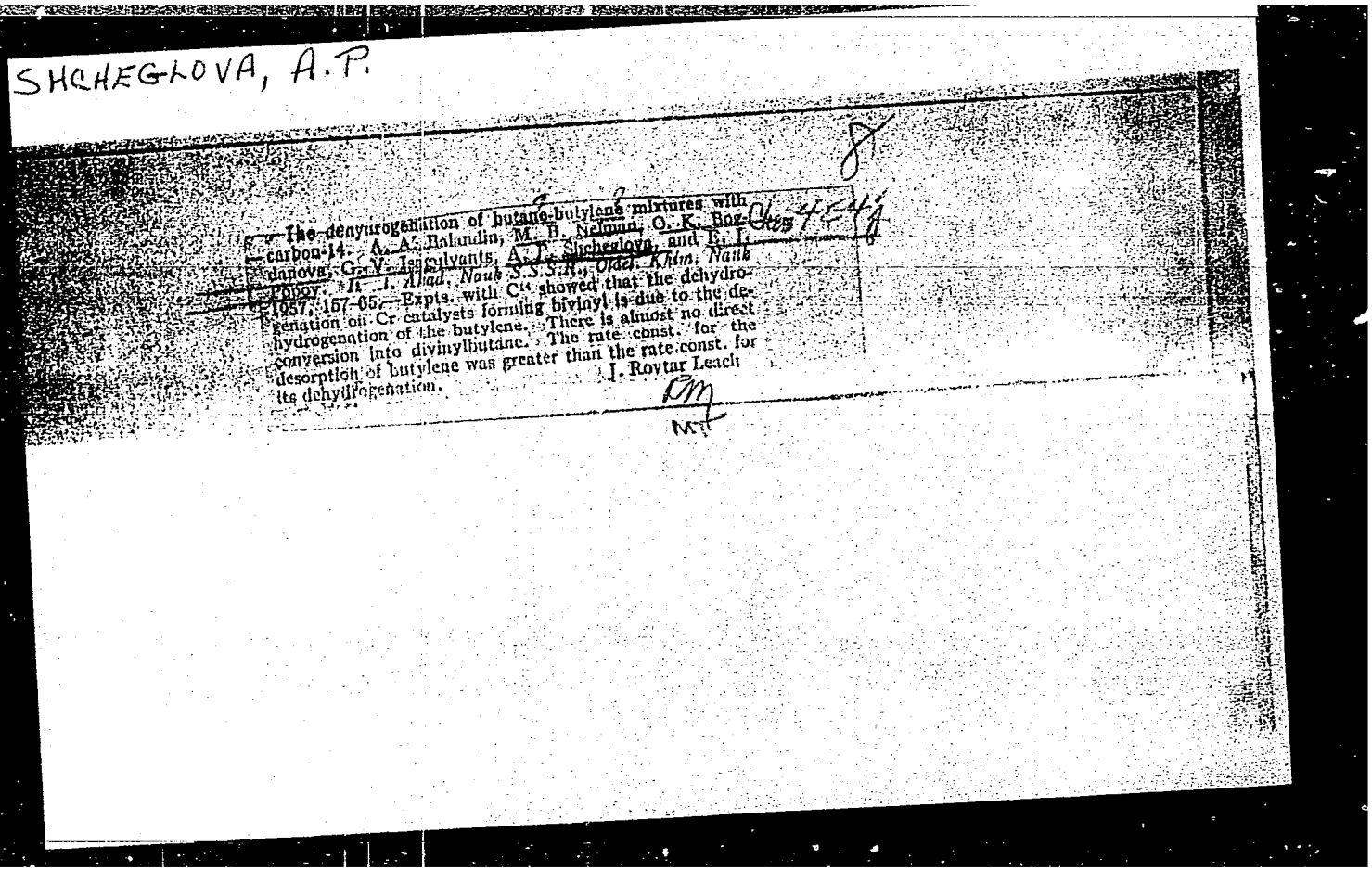


BALANDIN, A. A., ROTKIN, M. E., BOGDANOVA, [illegible] E., ISAGULYANTS, G. V. SHCHEGLOVA, A. I., [illegible] V. I.

"Tagged-Atom Study of the Dehydrogenation of Butane-Butylene Mixtures."

Problemy kinetiki i kataliza, v. 9, Isotopes in Catalysis [illegible] Ak Nauk SSSR, 1957. 394 p.

Most of the papers in this collection were presented at the [illegible] Isotopes in Catalysis which took place in Moscow, Mar 31- Apr 5, 1956.



SHCHEGLOVA, A.P.

The denyurogenation of butane-butylene mixtures with carbon-14. A. A. Balandin, M. B. Neiman, O. K. Bogdanova, G. V. Isagulyants, A. P. Shcheglova, and E. I. Popov. *Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1957, 167-05.—Expts. with C^{14} showed that the dehydrogenation on Cr catalysts forming divinyl is due to the dehydrogenation of the butylene. There is almost no direct conversion into divinylbutane. The rate const. for the desorption of butylene was greater than the rate const. for its dehydrogenation.

J. Roytur Leach

BALANDIN, A.A.; NEYMAN, M.B.; BOGDANOVA, O.K.; ISAGULYANTS, G.V.; SHCHEGLOVA, A.P.; POPOV, Ye.I.

Process of carbon dioxide formation in obtaining divinyl from butane-butylene mixtures. Izv.AN SSSR.Otd.khim.nauk no.3:270-278 Mr '57. (MLRA 10:5)

1.Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR i Institut khimicheskoy fiziki Akademii nauk SSSR.
(Carbon dioxide) (Butane) (Butylene)

BOGDANOVA, O.K.; BALANDIN, A.A.; SHCHEGLOVA, A.P.

Effect of the structure of alcohol molecules on the kinetics of their dehydrogenation. Izv.AN SSSR.Otd.khim.nauk. no.7:787-794 Jl '57. (MIRA 10:10)

1.Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Alcohol) (Dehydrogenation)

MOGDANOVA, O.K.; BALANDIN, A.A.; SHCHEGLOVA, A.P.

Effect of the structure of alcohol molecules on the kinetics of their dehydrogenation. Report No. 2: Alcohols C_4 - C_8.
Izv. AN SSSR.Otd.khim.nauk. no.7:795-800 Jl '57. (MIRA 10:10)

1.Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Alcohol) (Dehydrogenation)

BALANDIN, A.A.; BOGDANOVA, O.K.; SHCHEGLOVA, A.P.

Effect of the structure of alcohol molecules on the kinetics of their dehydrogenation. Report No.3: Comparing the results obtained for different alcohols. Izv. AN SSSR, Otd. khim. nauk no.8:909-915 Ag '57. (MIRA 11:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Alcohols) (Chemical structure) (Dehydrogenation)

SHCHEGLOVA, A.P.

BALANDIN, A.A.; NEYMAN, [illegible]B.; BOGDANOVA, O.K.; ISAGULYANTS, G.V.; SHCHEGLOVA, A.P.; POPOV, Ye.I.

Dehydrogenation of butane - butylene mixtures using tagged atoms. Probl. kin. i kat. 9:45-60 '57. (MIRA 11:3)
(Dehydrogenation) (Butane)

Shcheglova, A.P.

AUTHORS: Balandin, A. A., Academician 20-2-30/60
Bogdanova, O. K., Shcheglova, A. P.,

TITLE: On Free Energy, Heat, and Entropy of the Adsorption Displacement of Alcohols From the Surface of an Oxide Catalyst by Means of Water (O svobodnoy energii, teplote i entropii adsorbtsionnogo vytesneniya spirtov vodoy s poverkhnosti okisnogo katalizatora)

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 2, pp. 312-314 (USSR)

ABSTRACT: This work examined the kinetics of dehydrogenizing of binary mixtures of normal structured primary alcohols by water by means of an oxide catalyst. The authors ascertained the coefficients of relative adsorption of water and examined the dependence of these quantities on the length of the carbon chain of alcohol. n-propyl alcohol, n - butyl alcohol, and n -hexyl alcohol were examined. The intial mixtures alcohol-water were produced by addition of water to a dosed quantity of alcohol. The experiments were made in the temperature interval of from 300 - 360°C. The data obtained here are grouped in a table. Another table contains the values of the coefficients of the relative adsorption of water, which were computed for the experimental data by a formula

Card 1/3

On Free Energy, Heat, and Entropy of the Adsorption Displacement 20-2-30/60
of Alcohols From the Surface of an Oxide Catalyst by Means of Water

which is given here. The coefficient of the relative adosorption of water decreases in the case of increasing temperature. The addition of water deminishes the velocity of dehydrogenisation of alcohol by more than 45% at a temperature of 320° C. In case of increasing temperature the slowing-down effect of water decreases. This mekes it possible to draw the following conclusions: The steam gets adsorbed by the catalyst the more, the lower the temperature. The coefficients of adsorption of water at the active centers of the catalyst are, in the examined temperature interval, in the case of water 3,5 to 1,3 times as high as in the case of alcohol. The coefficients of adsorption of water at the various values, mentioned above, have similar values. From the results of the experiments which were obtained here, the following appears: The coefficients of absolute adsorption of water-alcohols are, in case of primary alcohols of normal structure a function of temperature and do not depend on the length of the carbon chain of the alcohol. There are 2 figures, 2 tables, and 5 references, 4 of which are Slavic.

Card 2/3

On Free Energy, Heat, and Entropy of the Adsorption Displacement of Alcohols From the Surface of an Oxide Catalyst by Means of Water 20-2-30/60

ASSOCIATION: Institute for Organic Chemistry imeni N.D. Zelinskiy AN USSR (Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR)

SUBMITTED: August 23, 1957

AVAILABLE: Library of Congress

Card 3/3